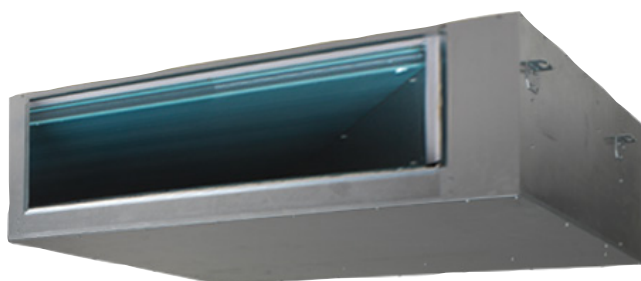




VRV IV heat pump for indoor installation Air Conditioning Technical Data SB.RKXYQ-T / SB.RKXYQ-T8



SB.RKXYQ8T
SB.RKXYQ5T8
RDXYQ8T7V1B
RKXYQ8T7Y1B
RKXYQ5T8Y1B
RDXYQ5T8V1B

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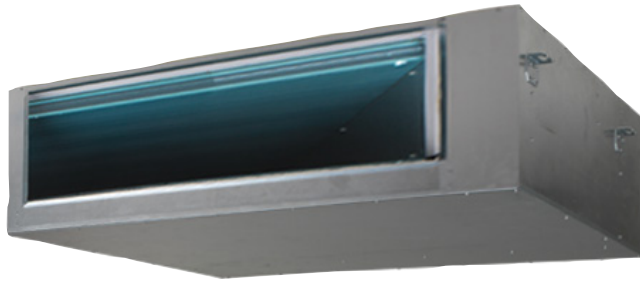
SB.RKXYQ-T / SB.RKXYQ-T8

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1 Features

1 - 1 SB.RKXYQ-T

- › By choosing this product with LOOP by Daikin you support the reuse of refrigerant
- › Unique VRV heat pump for indoor installation
- › Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor
- › Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- › Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- › Lightweight units (max. 105kg) can be installed by two people
- › Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- › Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- › Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- › Connectable to all VRV control systems
- › Keep your system in top condition via the Daikin Cloud Service: 24/7 monitoring for maximum efficiency, extended lifetime and immediate service support thanks to failure prediction

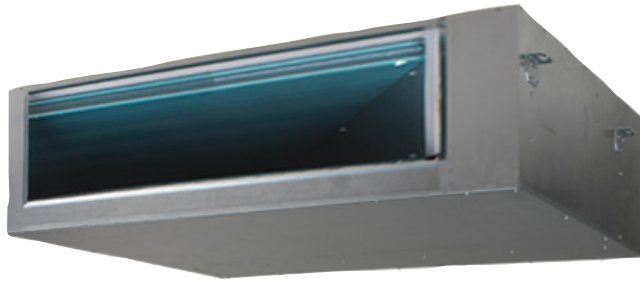


Inverter

1 Features

1 - 2 SB.RKXYQ-T8

- › By choosing this product with LOOP by Daikin you support the reuse of refrigerant
- › Unique VRV heat pump for indoor installation
- › Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor
- › Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- › Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- › Lightweight units (max. 105kg) can be installed by two people
- › Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- › Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- › Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- › Connectable to all VRV control systems
- › Keep your system in top condition via the Daikin Cloud Service: 24/7 monitoring for maximum efficiency, extended lifetime and immediate service support thanks to failure prediction



Inverter

2 Specifications

2 - 1 Specifications

Technical specifications System					SB.RKXYQ8T		
System	Heat exchanger unit				RDXYQ8T		
	Compressor unit				RKXYQ8T		
Recommended combination					4 x FXMQ50P7VEB		
Recommended combination 2					4 x FXSQ50A2VEB		
Cooling capacity	Prated,c		kW		22.4 (1)		
Heating capacity	Nom.	6°CWB		kW	22.4 (2)		
	Prated,h		kW		12.9		
	Max.	6°CWB		kW	25.0 (2)		
Power input - 50Hz	Heating	Nom.	6°CWB		kW		6.8 (2)
COP at nom. capacity	6°CWB		kW/kW		3.3		
SCOP					3.6		
SCOP recommended combination 2					3.5		
SEER					4.9		
SEER recommended combination 2					4.8		
ηs,c				%	191.1		
ηs,h				%	140.9		
Space cooling	A Condi- tion (35°C - 27/19)	EERd Pdc	kW		2.2		
			kW		22.4		
			B Condi- tion (30°C - 27/19)		EERd Pdc		3.7
			kW		16.5		
			C Condi- tion (25°C - 27/19)		EERd Pdc		5.5
kW		10.6					
D Condi- tion (20°C - 27/19)		EERd Pdc		10.5			
kW		6.4					
Space cooling recommended combination 2	A Condi- tion (35°C - 27/19)	EERd Pdc	kW		2.1		
			kW		22.4		
			B Condi- tion (30°C - 27/19)		EERd Pdc		3.7
			kW		16.5		
			C Condi- tion (25°C - 27/19)		EERd Pdc		5.6
kW		10.6					
D Condi- tion (20°C - 27/19)		EERd Pdc		10.7			
kW		6.4					
Space heating (Average climate)	TBivalent	COPd (declared COP)			2.0		
		Pdh (declared heating cap)		kW	12.9		
		Tbiv (bivalent temperature)		°C	-10.0		
Space heating (Average climate)	TOL	COPd (declared COP)			2.0		
		Pdh (declared heating cap)		kW	12.9		
	Tol (temperature operating limit)		°C	-10.0			
	A Con- dition (-7°C)	COPd (declared COP)			2.3		
		Pdh (declared heating cap)		kW	11.4		
	B Condi- tion (2°C)	COPd (declared COP)			3.0		
		Pdh (declared heating cap)		kW	6.9		
	C Condi- tion (7°C)	COPd (declared COP)			6.6		
		Pdh (declared heating cap)		kW	5.4		
	D Con- dition (12°C)	COPd (declared COP)			7.3		
Pdh (declared heating cap)		kW	6.0				
Space heating (Average climate) recommended combination 2	A Con- dition (-7°C)	COPd (declared COP)			2.3		
		Pdh (declared heating cap)		kW	11.4		
	B Condi- tion (2°C)	COPd (declared COP)			3.0		
		Pdh (declared heating cap)		kW	6.9		
	C Condi- tion (7°C)	COPd (declared COP)			5.9		
		Pdh (declared heating cap)		kW	4.9		
	D Con- dition (12°C)	COPd (declared COP)			7.2		
		Pdh (declared heating cap)		kW	6.0		
	TBivalent	COPd (declared COP)			2.0		
		Pdh (declared heating cap)		kW	12.9		
		Tbiv (bivalent temperature)		°C	-10.0		
Capacity range				HP	8		
Maximum number of connectable indoor units					17 (3)		

2 Specifications

2 - 1 Specifications

Technical specifications System					SB.RKXYQ8T
Indoor index connection	Min.				100.0
	Max.				260.0
Heat exchanger	Air flow rate	Cooling	Rated	m³/h	6,000
		Heating	Rated	m³/h	6,000
Fan	External static pressure	Max.		Pa	150
		Nom.		Pa	60
Operation range	Cooling	Min.		°CDB	-5.0
		Max.		°CDB	46.0
	Heating	Min.		°CWB	-20.0
		Max.		°CWB	15.5
	Temperature around casing	Min.		°CDB	5
		Max.		°CDB	35
	Humidity around casing	Cooling	Max.	%	80
		Heating	Max.	%	50
Sound power level	Cooling	Nom.		dB(A)	81.0 (4)
Refrigerant	Type				R-410A
	GWP				2,087.5
Refrigerant oil	Type				Synthetic (ether) oil FVC68D
Piping connections	Between Com-pressor module (CM) and heat ex-changer module (HM)	Liquid	Type		Braze connection
			OD	mm	12.7
		Gas	Type		Braze connection
			OD	mm	22.2
		Piping length	Max.	m	30.0
	Between Com-pressor module (CM) and indoor units (IU)	Liquid	Type		Braze connection
			OD	mm	9.52
		Gas	Type		Braze connection
			OD	mm	19.1
	Total piping length	System	Actual	m	300 (5)
Defrost method					Reversed cycle
Capacity control	Method				Inverter controlled
Indication if the heater is equipped with a supplementary heater					no
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000
		Heating	PCK	kW	0.050
	Off mode	Cooling	POFF	kW	0.043
		Heating	POFF	kW	0.050
	Standby mode	Cooling	PSB	kW	0.043
		Heating	PSB	kW	0.050
	Thermo-stat-off mode	Cooling	PTO	kW	0.012
		Heating	PTO	kW	0.060
Cooling	Cdc (Degradation cooling)				0.25
Heating	Cdh (Degradation heating)				0.25
Safety devices	Item	01			High pressure switch
		02			Fan driver overload protector
		03			Inverter overload protector
		04			PC board fuse
		05			Earth leakage detector
Electrical specifications System					SB.RKXYQ8T
Current - 50Hz	Nominal running current (RLA)	Combina- tion A			-
		Combina- tion B			-
	Zmax	List			No requirements
	Minimum Ssc value				3,329 (6)

2 Specifications

2 - 1 Specifications

2

Electrical specifications System				SB.RKXYQ8T
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load 46°C ISO - Full load	- -
(1)Cooling: indoor temp. 27°CDB; 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m (2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m (3)Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤ 130%). (4)Sound power level is an absolute value that a sound source generates. (5)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. (6)Refer to refrigerant pipe selection or installation manual (7)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB (8)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. (9)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value (10)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. (11)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). (12)TOCA means the total value of each OC set. (13)FLA means the nominal running current of the fan (14)Maximum allowable voltage range variation between phases is 2%. (15)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. (16)Sound values are measured in a semi-anechoic room. (17)EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase (18)Ssc: Short-circuit power (19)For detailed contents of standard accessories, see installation/operation manual				

Technical specifications System					SB.RKXYQ5T8		
System	Heat exchanger unit				RDXYQ5T8		
	Compressor unit				RKXYQ5T8		
Recommended combination					4 x FXSQ32A2VEB		
Cooling capacity	Prated,c			kW	14.0 (1)		
Heating capacity	Nom.	6°CWB		kW	14.0 (2)		
	Prated,h			kW	10.4		
	Max.	6°CWB		kW	16.0 (2)		
Power input - 50Hz	Heating	Nom.	6°CWB		kW	3.5 (2)	
COP at nom. capacity	6°CWB				kW/kW		4.0
SCOP					3.8		
SEER					5.1		
ηs,c				%	200.1		
ηs,h				%	149.3		
Space cooling	A Condi- tion (35°C - 27/19)	EERd Pdc			2.4		
			kW		14.0		
	B Condi- tion (30°C - 27/19)	EERd Pdc			4.0		
			kW		10.3		
	C Condi- tion (25°C - 27/19)	EERd Pdc			6.5		
			kW		6.6		
	D Condi- tion (20°C - 27/19)	EERd Pdc			9.4		
			kW		4.8		
Space heating (Average climate)	TBivalent	COPd (declared COP)			2.2		
		Pdh (declared heating cap)	kW		10.4		
		Tbiv (bivalent temperature)	°C		-10.0		
	TOL	COPd (declared COP)			2.2		
		Pdh (declared heating cap)	kW		10.4		
		Tol (temperature operating limit)	°C		-10.0		
	A Con- dition (-7°C)	COPd (declared COP)			2.4		
		Pdh (declared heating cap)	kW		9.2		
	B Condi- tion (2°C)	COPd (declared COP)			3.3		
		Pdh (declared heating cap)	kW		5.6		
	C Condi- tion (7°C)	COPd (declared COP)			7.1		
		Pdh (declared heating cap)	kW		3.6		
	D Con- dition (12°C)	COPd (declared COP)			5.2		
		Pdh (declared heating cap)	kW		4.1		
Capacity range				HP	5		
Maximum number of connectable indoor units					10 (3)		
Indoor index connection	Min.				62.5		
	Max.				162.5		
Heat exchanger	Air flow rate	Cooling	Rated	m³/h	3,300		
		Heating	Rated	m³/h	3,300		
Fan	External static pressure	Max.	Pa		150		
		Nom.	Pa		60		

2 Specifications

2 - 1 Specifications

Technical specifications System					SB.RKXYQ5T8
Operation range	Cooling	Min.	°CDB		-5.0
		Max.	°CDB		46.0
	Heating	Min.	°CWB		-20.0
		Max.	°CWB		15.5
	Temperature around casing	Min.	°CDB		5
		Max.	°CDB		35
	Humidity around casing	Cooling Max.	%		80
		Heating Max.	%		50
Sound power level	Cooling	Nom.	dB(A)		77.0 (4)
Refrigerant	Type				R-410A
	GWP				2,087.5
Refrigerant oil	Type				Synthetic (ether) oil FVC50K
Piping connections	Between Com-pressor module (CM) and heat exchanger module (HM)	Liquid	Type		Braze connection
			OD	mm	12.7
		Gas	Type		Braze connection
			OD	mm	19.1
	Piping length	Max.		m	30.0
	Between Com-pressor module (CM) and indoor units (IU)	Liquid	Type		Braze connection
			OD	mm	9.52
		Gas	Type		Braze connection
			OD	mm	15.9
	Total piping length	System	Actual	m	140 (5)
Defrost method					Reversed cycle
Capacity control	Method				Inverter controlled
Indication if the heater is equipped with a supplementary heater					no
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0
Power consumption in other than active mode	Crank-case heater mode	Cooling	PCK	kW	0.000
		Heating	PCK	kW	0.055
	Off mode	Cooling	POFF	kW	0.045
		Heating	POFF	kW	0.055
Power consumption in other than active mode	Standby mode	Cooling	PSB	kW	0.045
		Heating	PSB	kW	0.055
	Thermo-stat-off mode	Cooling	PTO	kW	0.000
		Heating	PTO	kW	0.055
Cooling	Cdc (Degradation cooling)				0.25
Heating	Cdh (Degradation heating)				0.25
Safety devices	Item	01			High pressure switch
		02			Fan driver overload protector
		03			Inverter overload protector
		04			PC board fuse

Electrical specifications System					SB.RKXYQ5T8
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling		-
		Combina- tion B	Cooling		-
	Zmax	List			No requirements
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load		-
			46°C ISO - Full load		-
Wiring connections - 50Hz	For connection with indoor	Quantity			2
		Remark			F1,F2

(1)Cooling: indoor temp. 27°CDB; 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

(2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |

(3)Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being: 50% ≤ CR ≤ 130%). |

(4)Sound power level is an absolute value that a sound source generates. |

(5)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |

(6)Refer to refrigerant pipe selection or installation manual |

2 Specifications

2 - 1 Specifications

(7)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |

(8)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |

(9)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value |

(10)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |

(11)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

(12)TOCA means the total value of each OC set. |

(13)FLA means the nominal running current of the fan |

(14)Maximum allowable voltage range variation between phases is 2%. |

(15)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

(16)Sound values are measured in a semi-anechoic room. |

(17)EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase |

(18)Ssc: Short-circuit power |

(19)For detailed contents of standard accessories, see installation/operation manual

Technical specifications Module					RDXYQ8T	
PED	Category				Excluded from scope of 2014/68/EU due to article1.2 f	
Dimensions	Unit	Height	mm		397	
		Width	mm		1,456	
		Depth	mm		1,044	
	Packed unit	Height	mm		1,245	
		Width	mm		1,604	
		Depth	mm		470	
	Ducting	Height	mm		298	
		Width	mm		1,196	
Weight	Unit	kg		103		
	Packed unit	kg		123		
Packing	Material			Carton		
	Weight	kg		4.9		
Packing 2	Material			Wood		
	Weight	kg		14.0		
Casing	Colour			Unpainted		
	Material			Galvanised steel plate		
Heat exchanger	Type			Cross fin coil		
	Indoor side			Air		
	Outdoor side			Air		
	Air flow rate	Cooling	Rated	m³/h	6,000	
		Heating	Rated	m³/h	6,000	
Fan	Quantity			3		
Fan motor	Quantity			3		
Sound power level	Cooling	Nom.	dBA	81.0 (1)		
Sound pressure level	Cooling	Nom.	dBA	54.0 (2)		
Refrigerant	Type			R-410A		
Refrigerant oil	Type			Synthetic (ether) oil FVC68D		
Piping connections	Drain	OD	mm	32		

Electrical specifications Module				RDXYQ8T	
Power supply	Name			V1	
	Phase			1N~	
	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Min.	%		-10	
	Max.	%		10	
Current	Nominal running current (RLA)	Cooling	A	4.6 (7)	
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-	
		Combina- tion B	Cooling	-	
	Starting current (MSC) - remark			See note 8	
	Minimum circuit amps (MCA)		A	7.0 (10)	
	Maximum fuse amps (MFA)		A	10 (11)	
	Total overcurrent amps (TOCA)		A	7.0 (12)	
	Full load amps (FLA)	Total	A	6.6 (13)	
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-	
			46°C ISO - Full load	-	
Wiring connections - 50Hz	For power supply	Quantity		3G	

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

(2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |

(3)Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤ 130%). |

(4)Sound power level is an absolute value that a sound source generates. |

2 Specifications

2 - 1 Specifications

- (5)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |
- (6)Refer to refrigerant pipe selection or installation manual |
- (7)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |
- (8)MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always \leq max. running current. |
- (9)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc} \geq$ minimum S_{sc} value |
- (10)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |
- (11)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |
- (12)TOCA means the total value of each OC set. |
- (13)FLA means the nominal running current of the fan |
- (14)Maximum allowable voltage range variation between phases is 2%. |
- (15)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
- (16)Sound values are measured in a semi-anechoic room. |
- (17)EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current $> 16A$ and $\leq 75A$ per phase |
- (18) S_{sc} : Short-circuit power |
- (19)For detailed contents of standard accessories, see installation/operation manual

Technical specifications Module				RKXYQ8T
PED	Category			Category II
	Most critical part	Name	Ps*V	Accumulator
			Bar*l	245
Dimensions	Unit	Height	mm	701
		Width	mm	760
		Depth	mm	554
	Packed unit	Height	mm	825
		Width	mm	890
		Depth	mm	660
Weight	Unit		kg	105
	Packed unit		kg	116
Packing	Material			Carton
	Weight			2.2
Packing 2	Material			Wood
	Weight			8.5
Packing 3	Material			Plastic
	Weight			0.3
Casing	Colour			Daikin White
	Material			Painted galvanized steel plate
Compressor	Quantity			1
	Type			Hermetically sealed scroll compressor
	Crankcase heater			W
Sound power level	Cooling	Nom.	dBA	64.0 (1)
Sound pressure level	Cooling	Nom.	dBA	48.0 (2)
Refrigerant	Type			R-410A
	GWP			2,087.5
	Charge			kg
Refrigerant oil				4.00
	Type			Synthetic (ether) oil FVC68D

Electrical specifications Module				RKXYQ8T
Power supply	Name			Y1
	Phase			3N~
	Frequency			Hz
	Voltage			V
Voltage range	Min.			%
	Max.			%
Current	Nominal running current (RLA)	Cooling	A	8.6 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-
		Combina- tion B	Cooling	-
	Starting current (MSC) - remark			See note 8
	Minimum circuit amps (MCA)			A
	Maximum fuse amps (MFA)			A
	Total overcurrent amps (TOCA)			A
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-
			46°C ISO - Full load	-
Wiring connections - 50Hz	For power supply	Quantity		5G
	For connec- tion with indoor	Quantity		2
		Remark		F1,F2

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

2 Specifications

2 - 1 Specifications

- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |
- (3) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being: 50% ≤ CR ≤ 130%). |
- (4) Sound power level is an absolute value that a sound source generates. |
- (5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |
- (6) Refer to refrigerant pipe selection or installation manual |
- (7) RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |
- (8) MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |
- (9) In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value |
- (10) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |
- (11) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |
- (12) TOCA means the total value of each OC set. |
- (13) FLA means the nominal running current of the fan |
- (14) Maximum allowable voltage range variation between phases is 2%. |
- (15) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
- (16) Sound values are measured in a semi-anechoic room. |
- (17) EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase |
- (18) Ssc: Short-circuit power |
- (19) For detailed contents of standard accessories, see installation/operation manual

Technical specifications Module				RKXYQ5T8
PED	Category			Category I
	Most critical part	Name	Ps*V	Compressor
Dimensions	Unit	Height	mm	167
		Width	mm	701
		Depth	mm	600
	Packed unit	Height	mm	554
		Width	mm	838
		Depth	mm	740
Weight	Unit		kg	680
	Packed unit		kg	79
Packing	Material			90
	Weight		kg	Carton
Packing 2	Material			2.1
	Weight		kg	Wood
Packing 3	Material			6.9
	Weight		kg	Plastic
Casing	Colour			0.3
	Material			Daikin White
Compressor	Quantity			Painted galvanized steel plate
	Type			1
	Crankcase heater	W		Hermetically sealed swing compressor
Sound power level	Cooling	Nom.	dBA	33
Sound pressure level	Cooling	Nom.	dBA	60.0 (1)
Refrigerant	Type			47.0 (2)
	GWP			R-410A
	Charge	kg		2,087.5
Refrigerant oil	Type			2.00
				Synthetic (ether) oil FVC50K

Electrical specifications Module				RKXYQ5T8
Power supply	Name			Y1
	Phase			3N~
	Frequency			50
	Voltage			380-415
Voltage range	Min.			-10
	Max.			10
Current	Nominal running current (RLA)	Cooling	A	5.8 (7)
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-
		Combina- tion B	Cooling	-
	Starting current (MSC) - remark			See note 8
	Minimum circuit amps (MCA)			13.5 (10)
	Maximum fuse amps (MFA)			16 (11)
	Total overcurrent amps (TOCA)			13.5 (12)
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-
			46°C ISO - Full load	-
Wiring connections - 50Hz	For power supply	Quantity		5G

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |
- (3) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being: 50% ≤ CR ≤ 130%). |

2 Specifications

2 - 1 Specifications

- (4) Sound power level is an absolute value that a sound source generates. |
(5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |
(6) Refer to refrigerant pipe selection or installation manual |
(7) RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |
(8) MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |
(9) In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value |
(10) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |
(11) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |
(12) TOCA means the total value of each OC set. |
(13) FLA means the nominal running current of the fan |
(14) Maximum allowable voltage range variation between phases is 2%. |
(15) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
(16) Sound values are measured in a semi-anechoic room. |
(17) EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase |
(18) Ssc: Short-circuit power |
(19) For detailed contents of standard accessories, see installation/operation manual

Technical specifications Module					RDXYQ5T8	
PED	Category				Excluded from scope of 2014/68/EU due to article1.2 f	
Dimensions	Unit	Height	mm		397	
		Width	mm		1,456	
		Depth	mm		1,044	
	Packed unit	Height	mm		1,245	
		Width	mm		1,604	
		Depth	mm		470	
	Ducting	Height	mm		298	
		Width	mm		1,196	
Weight	Unit	kg		95		
	Packed unit	kg		119		
Packing	Material				Carton	
	Weight				4.9	
Packing 2	Material				Wood	
	Weight				14.0	
Casing	Colour				Unpainted	
	Material				Galvanised steel plate	
Heat exchanger	Type				Cross fin coil	
	Indoor side				Air	
	Outdoor side				Air	
	Air flow rate	Cooling	Rated	m³/h	3,300	
		Heating	Rated	m³/h	3,300	
Fan	Quantity				2	
Fan motor	Quantity				2	
Sound power level	Cooling	Nom.	dBA		77.0 (1)	
Sound pressure level	Cooling	Nom.	dBA		47.0 (2)	
Refrigerant	Type				R-410A	
Refrigerant oil	Type				Synthetic (ether) oil FVC50K	
Piping connections	Drain	OD	mm		32	

Electrical specifications Module				RDXYQ5T8	
Power supply	Name			V1	
	Phase			1N~	
	Frequency		Hz	50	
	Voltage		V	220-240	
Voltage range	Min.		%	-10	
	Max.		%	10	
Current	Nominal running current (RLA)	Cooling	A	1.8 (7)	
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-	
		Combina- tion B	Cooling	-	
	Starting current (MSC) - remark			See note 8	
	Minimum circuit amps (MCA)		A	4.6 (10)	
	Maximum fuse amps (MFA)		A	10 (11)	
	Total overcurrent amps (TOCA)		A	4.6 (12)	
	Full load amps (FLA)	Total	A	4.4 (13)	
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-	
			46°C ISO - Full load	-	
Wiring connections - 50Hz	For power supply	Quantity		3G	

(1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

2 Specifications

2 - 1 Specifications

- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |
- (3) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being; $50\% \leq CR \leq 130\%$). |
- (4) Sound power level is an absolute value that a sound source generates. |
- (5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |
- (6) Refer to refrigerant pipe selection or installation manual |
- (7) RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |
- (8) MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always \leq max. running current. |
- (9) In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc} \geq$ minimum S_{sc} value |
- (10) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |
- (11) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |
- (12) TOCA means the total value of each OC set. |
- (13) FLA means the nominal running current of the fan |
- (14) Maximum allowable voltage range variation between phases is 2%. |
- (15) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
- (16) Sound values are measured in a semi-anechoic room. |
- (17) EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current $> 16A$ and $\leq 75A$ per phase |
- (18) S_{sc} : Short-circuit power |
- (19) For detailed contents of standard accessories, see installation/operation manual

3 Options

3 - 1 Options

SB.RKXYQ5T8

VRV4-i Heat pump Option list

Nr.	Item	SB.RKXYQ5T		SB.RKXYQ8T	
		Heat exchanger unit	Compressor unit	Heat exchanger unit	Compressor unit
I.	Refnet header	KHRQ22M29H		KHRQ22M29H	
II.	Refnet joint	KHRQ22M20T		KHRQ22M20T	
III.	Refnet joint	-		KHRQ22M29T9	
1a.	Cool/heat selector (switch)	-	KRC19-26	-	KRC19-26
1b.	Cool/heat selector (fixing box)	-	KJB111A	-	KJB111A
1c.	Cool/heat selector (cable)	-	EKCHSC	-	-
1d.	Cool/heat selector (PCB)	-	-	-	BRP2A81
2.	VRV configurator	-	EKPCCAB*	-	EKPCCAB*
3.	Demand PCB	DTA104A61/62*		DTA104A61/62*	
4.	Drain pan heater	EKDPH1RDX	-	EKDPH1RDX	-

Notes

1. All options are kits
2. To mount option 1a, option 1b is required.
3. VRV4-i 5 To operate the cool/heat selector function, options 1a and 1c are both required.
VRV4-i 8 To operate the cool/heat selector function, options 1a and 1d are both required.
4. If the outdoor temperature can drop below -7°C for more than 24 hours, it is recommended to install drain pan heater kit EKDPH1RDX.

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4 Combination table

4 - 1 Combination Table

SB.RKXYQ-T

VRV4-i
Heat pump
Indoor unit combination restrictions

System pattern		Capacity [%]	DX [%]	AHU [%]	FXMQ*MF [%]
VRV DX indoor unit		50 - 130	50 - 130	-	-
RA indoor unit		-	-	-	-
Hydrobox unit		-	-	-	-
DX + AHU	See note 1.	50 - 110	50 - 110	0 - 60	-
Air handling unit only	See note 1.	90 - 110	-	90 - 110	-
FXMQ*MF		50 - 100	-	-	50 - 100

AHU: Air handling unit (AHU)

Notes

1. AHU = CYV (biddle) air curtain OR EKEXV + EKEQM

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5 Capacity tables

5 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



- An overview of **all software tools** that we offer can be found here:
https://my.daikin.eu/denv/en_US/home/applications/software-finder.html



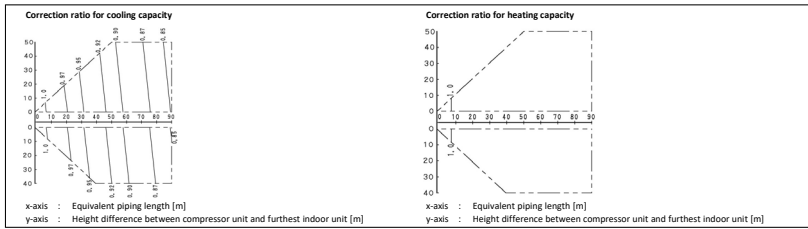
5 Capacity tables

5 - 2 Capacity Correction Factor

SB.RKXYQ5T8

VRV4-i Heat pump

Page -3-



Notes

1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.

2. With this -VRV4-i- system, the following control is used: in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control

Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity delivered by the compressor unit plus the heat exchanger unit, whichever is less.

Indoor connection ratio ≤ 100%.
Maximum capacity of outdoor units = Capacity from capacity table at 100% connection ratio x Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.
Maximum capacity of outdoor units = Capacity from capacity table at installed connection ratio x Correction ratio of piping to furthest indoor unit

4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥ 90-m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit). If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥ 90-m, you MUST increase the size of the main liquid pipe (between compressor unit and first refrigerant branch kit).

Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
Φ-HP	9.5	12.7	19.1	22.2

5. Overall equivalent length
Overall equivalent length = Equivalent length of the main pipe x Correction factor + Equivalent length of the branch pipes

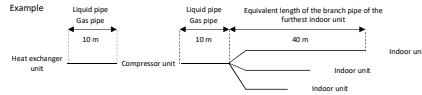
Choose the correction factor from the following table.

When calculating the cooling capacity: gas pipe size

When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.3

Example



Overall equivalent length

- Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m
- Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

Capacity correction ratio (height difference = 0)

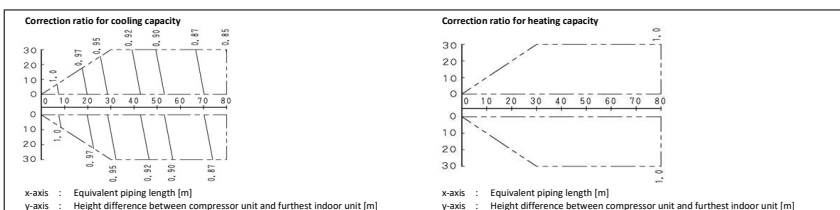
- Cooling mode = 0.89
- Heating mode = 1.00

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SB.RKXYQ5T8

VRV4-i Heat pump

Page -2-



Notes

1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.

2. With this -VRV4-i- system, the following control is used: in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control

Method of calculating the capacity of the outdoor units

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity delivered by the compressor unit plus the heat exchanger unit, whichever is less.

Indoor connection ratio ≤ 100%.
Maximum capacity of outdoor units = Capacity from capacity table at 100% connection ratio x Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.
Maximum capacity of outdoor units = Capacity from capacity table at installed connection ratio x Correction ratio of piping to furthest indoor unit

4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥ 90-m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit). If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
Φ-HP	9.5	Not increased	15.9	19.1

5. Overall equivalent length
Overall equivalent length = Equivalent length of the main pipe x Correction factor + Equivalent length of the branch pipes

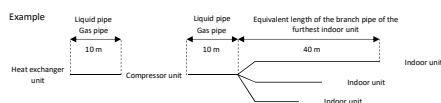
Choose the correction factor from the following table.

When calculating the cooling capacity: gas pipe size

When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1.0	0.5
Heating (liquid pipe)	1.0	0.3

Example



Overall equivalent length

- Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m
- Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.89
- Heating mode = 1.00

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5 Capacity tables

5 - 2 Capacity Correction Factor

SB.RKXYQ5T8

VRV4-i Heat pump Integrated heating capacity coefficient

The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.
The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

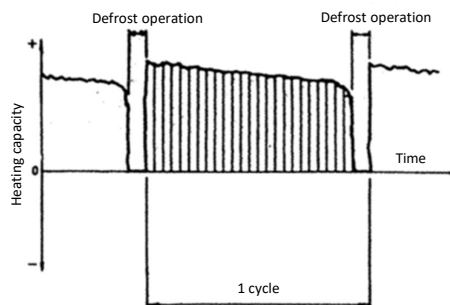
Formula

- A = Integrated heating capacity
B = Capacity characteristics value
C = Integrated correction factor for frost accumulation (see table)

$$A = B \cdot C$$

Inlet air temperature of heat exchanger

[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
5 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00
8 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00



Notes

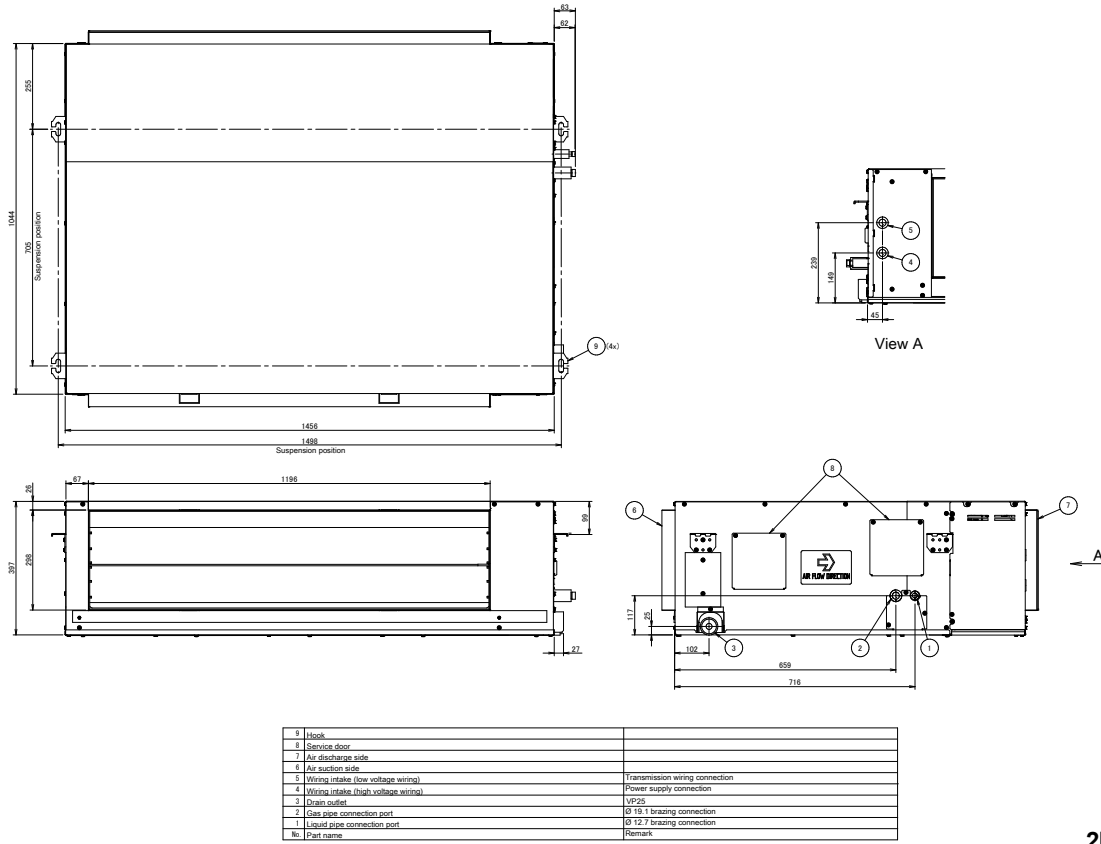
- The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

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6 Dimensional drawings

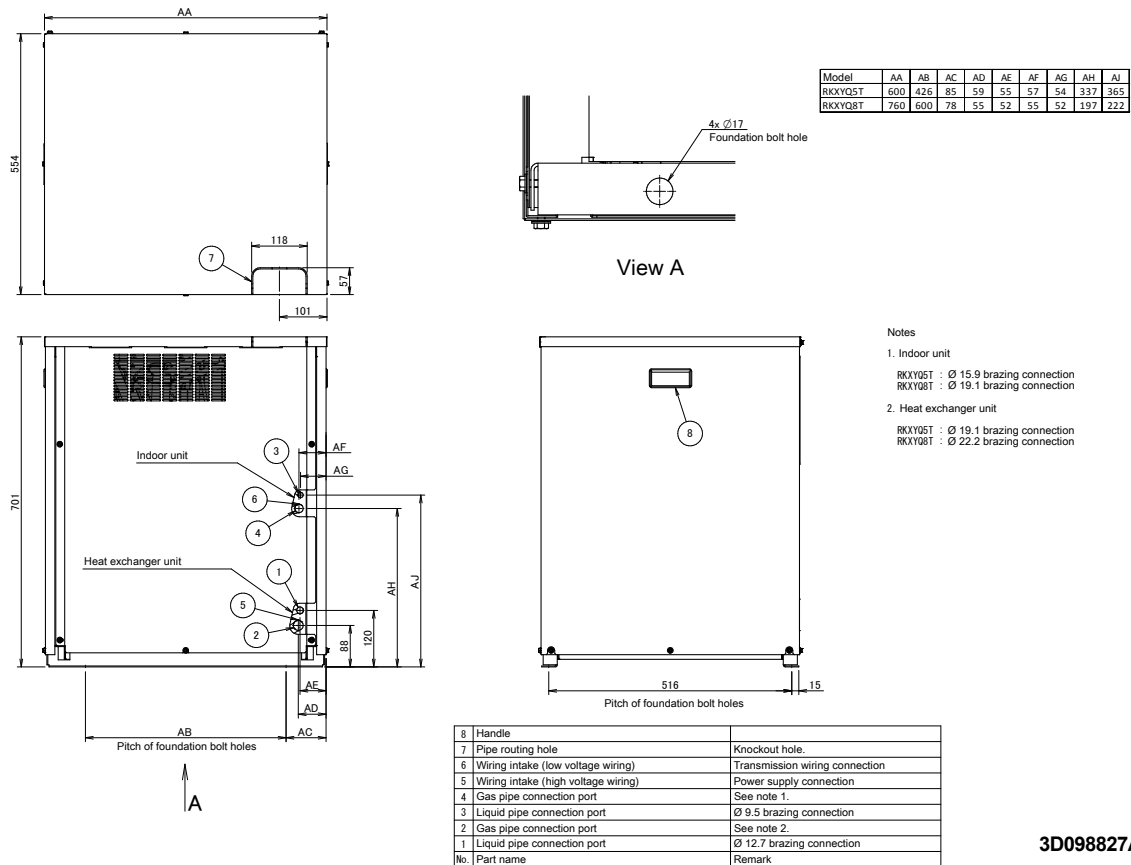
6 - 1 Dimensional Drawings

SB.RKXYQ-T



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RKXYQ-T



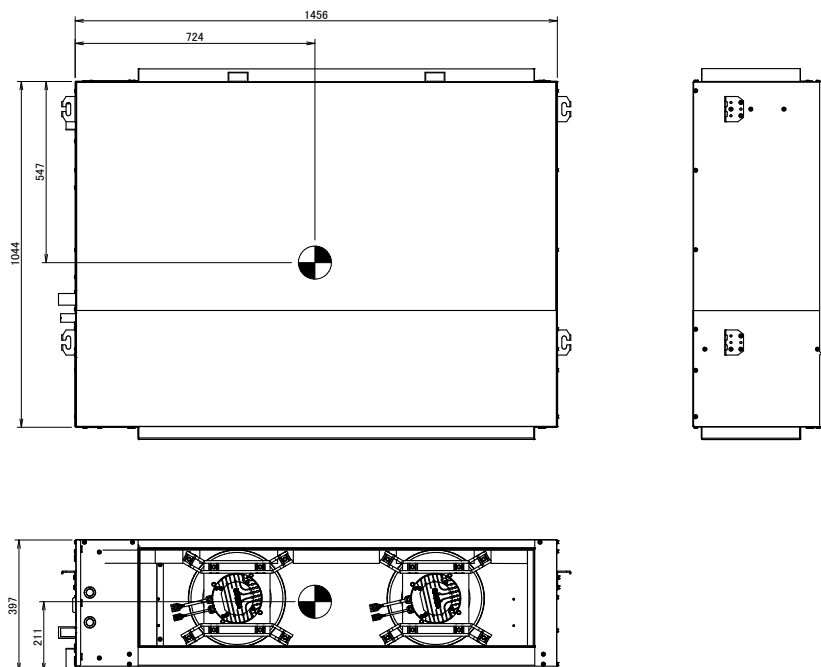
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7 Centre of gravity

7 - 1

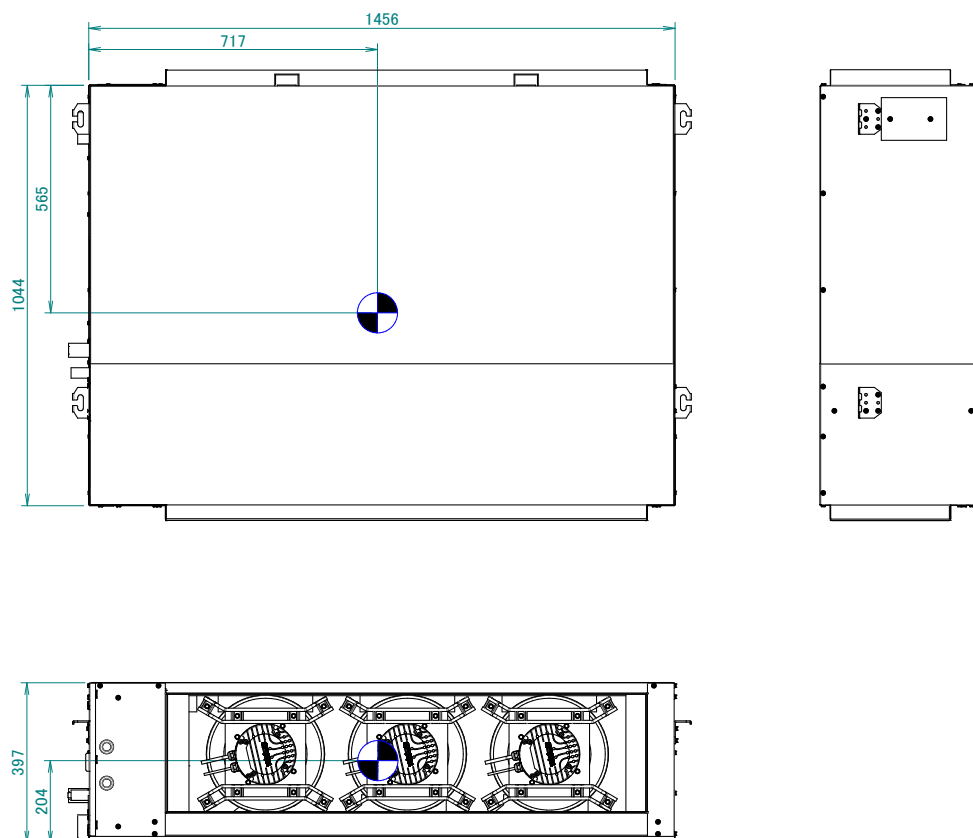
Centre of Gravity

RDXYQ5T



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RDXYQ8T

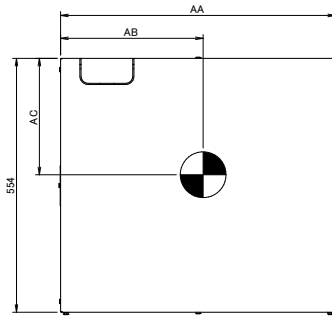


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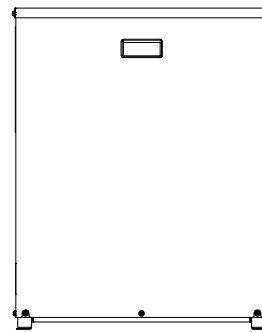
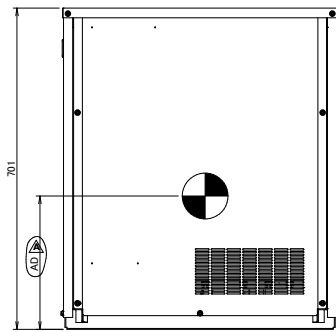
7 Centre of gravity

7 - 1 Centre of Gravity

SB.RKXYQ-T8



Model	AA	AB	AC	AD
RKXYQ5T	600	311	254	291
RKXYQ8T	760	450	256	292

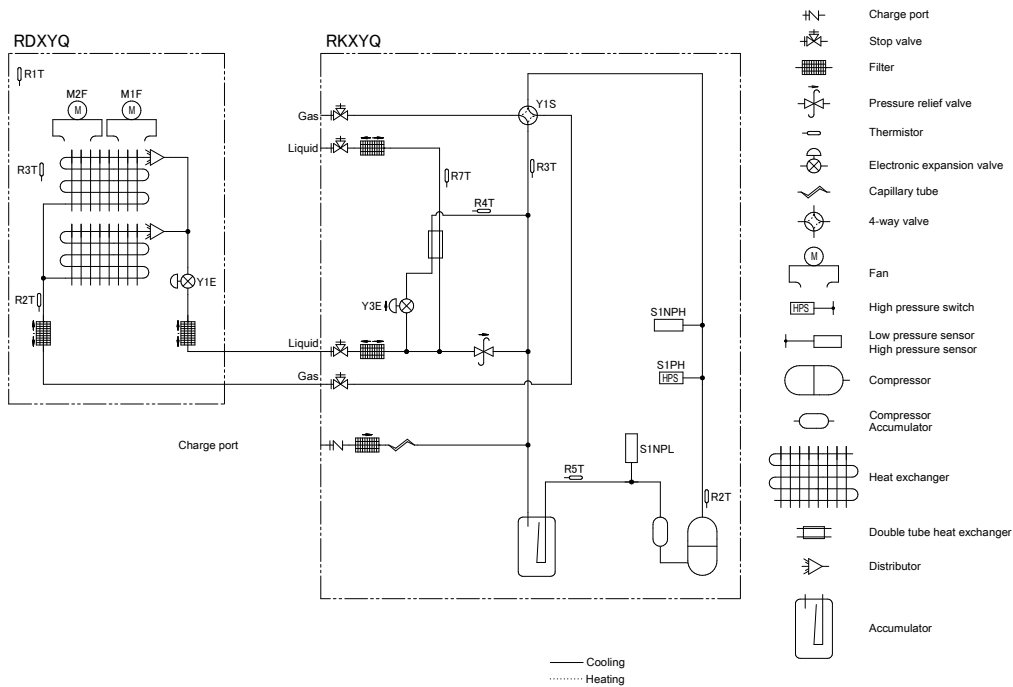


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8 Piping diagrams

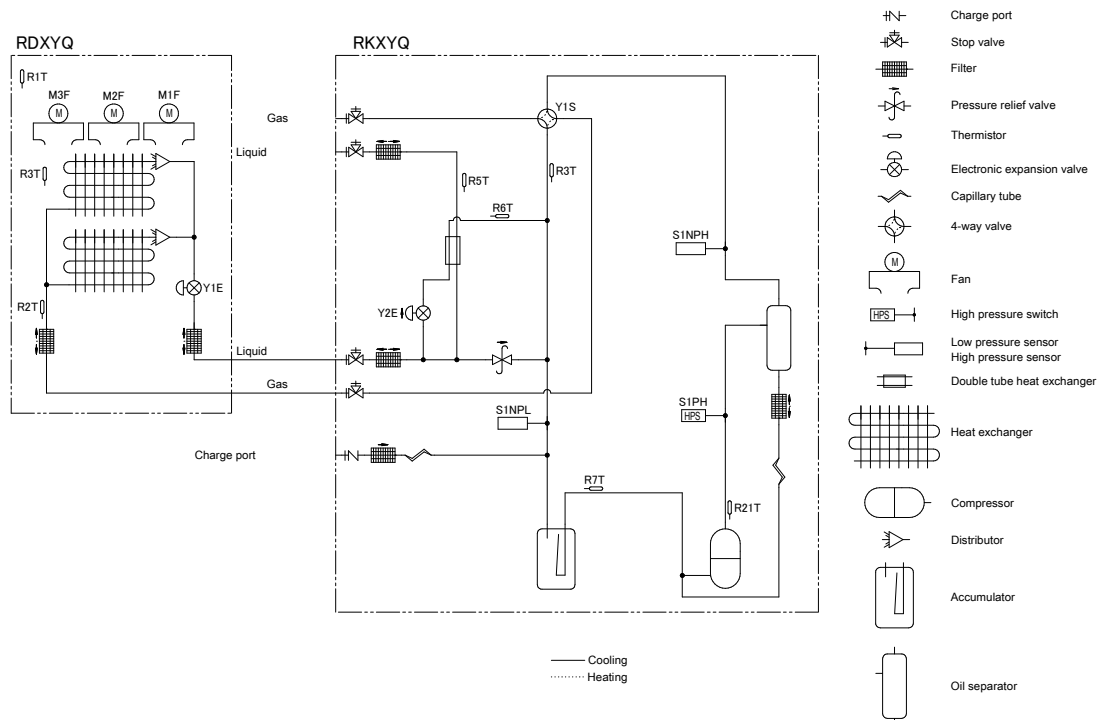
8 - 1 Piping Diagrams

SB.RKXYQ5T



3D098825B

SB.RKXYQ8T

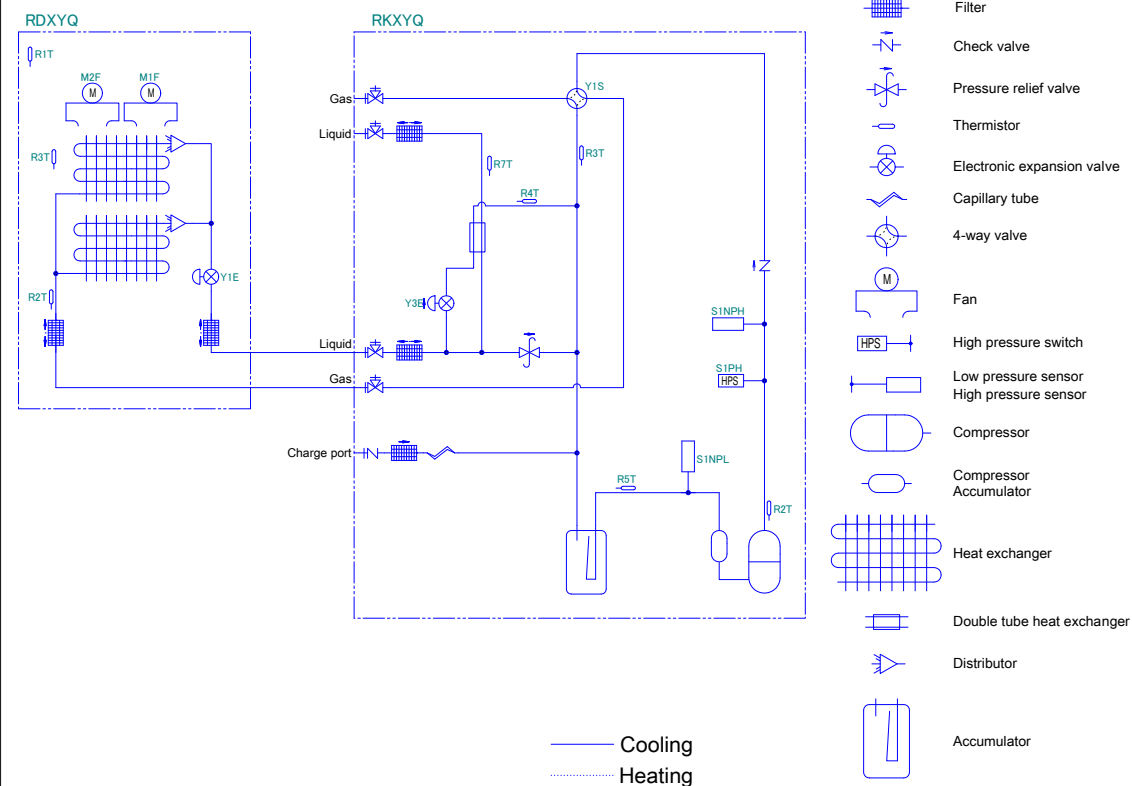


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8 Piping diagrams

8 - 1 Piping Diagrams

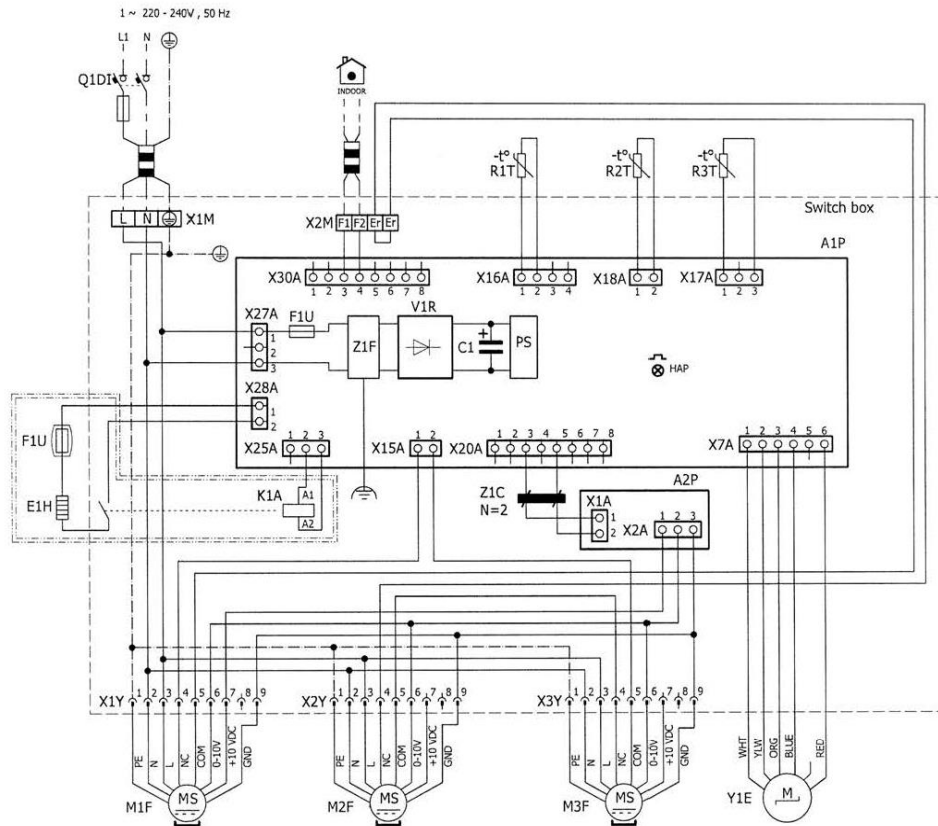
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RDXYQ5T8
RKXYQ5T8

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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

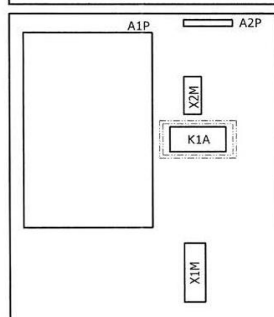
RDXYQ8T



NOTES to go through before starting the unit

- X1M : Main terminal
- 15 : Earth wiring
- 15 : Wire number 15
- Field wire
- Field cable
- **/12.2 : Connection ** continues on page 12 column 2
- ① : Several wiring possibilities
- Option
- Wiring depending on model
- Not mounted in switch box
- PCB

POSITION IN SWITCH BOX



LEGEND



Translation can be found in the installation manual.

Part n°	Description
A1P	main PCB
A2P	adapter PCB
C1 (A1P)	capacitor
E1H	* drain pan heater
F1U	* fuse F 1 A 250 V
F1U (A1P)	fuse T 6.3 A 250 V for PCB
HAP (A1P)	running LED (service monitor-green)
K1A	* auxiliary relay
M*F	* motor (fan)
Q1DI	# earth leakage circuit breaker
PS (A1P)	switching power supply
R1T	thermistor air
R2T	thermistor gas
R3T	thermistor coil
V1R (A1P)	diode module
X1M	main terminal
X2M	field wiring terminal
X*Y	connector
Y1E	electronic expansion valve
Z1C	ferrite core
Z1F (A1P)	noise filter

* : optional
: field supply

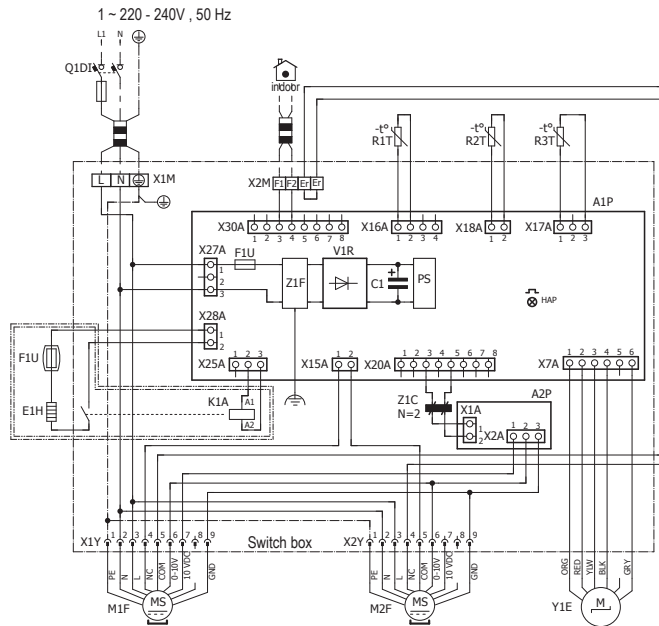
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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

9

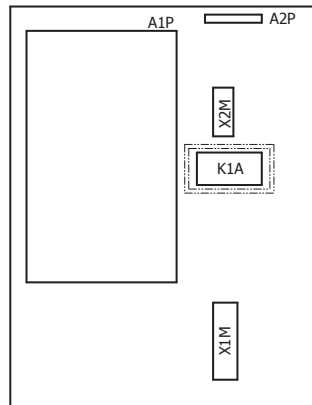
RDXYQ5T8



NOTES to go through before starting the unit

- X1M : Main terminal
- 15 : Earth wiring
- 15 : Wire number 15
- Field wire
- Field cable
- **/12.2 : Connection ** continues on page 12 column 2
- ① : Several wiring possibilities
- Option
- Wiring depending on model
- Not mounted in switch box
- PCB

POSITION IN SWITCH BOX



LEGEND

Part n°	Description
A1P	main PCB
A2P	adapter PCB
C1 (A1P)	capacitor
E1H	* drain pan heater
F1U	* fuse F 1 A 250 V
F1U (A1P)	fuse T 6.3 A 250 V for PCB
HAP (A1P)	running LED (service monitor-green)
K1A	* auxiliary relay
M1F	motor (fan)
Q1DI	# earth leakage circuit breaker
PS (A1P)	switching power supply
R1T	thermistor air
R2T	thermistor gas
R3T	thermistor coil
V1R (A1P)	diode module
X1M	main terminal
X2M	field wiring terminal
X*Y	connector
Y1E	electronic expansion valve
Z1C	ferrite core
Z1F (A1P)	noise filter

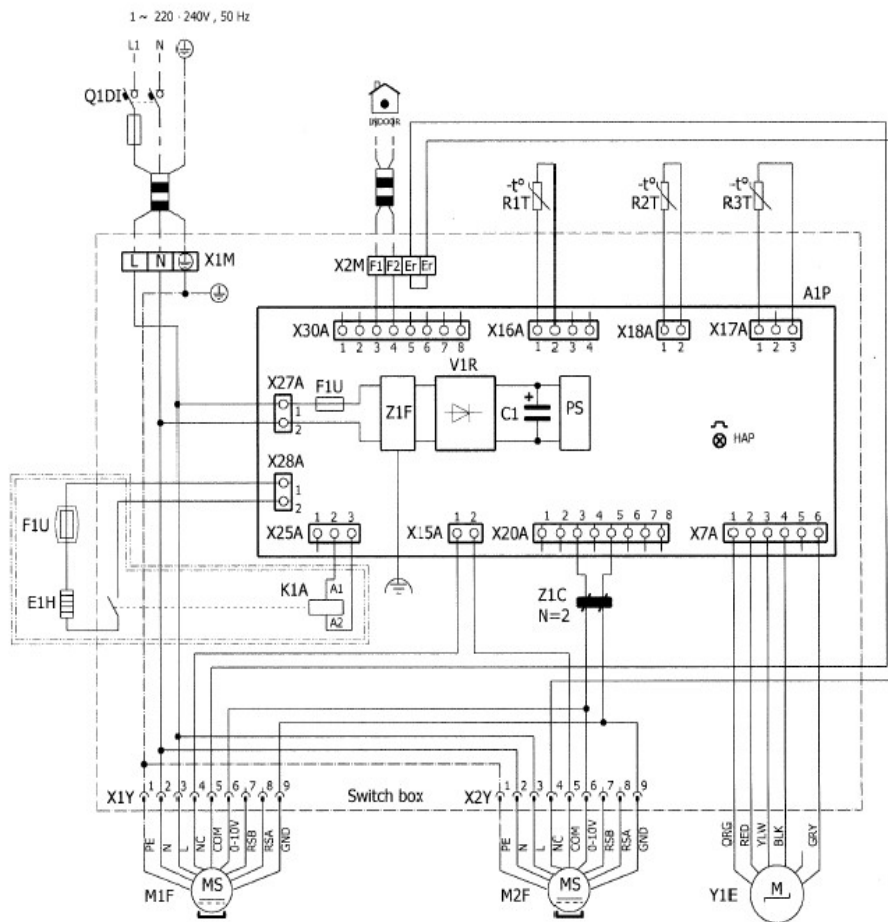
* : optional
: field supply

4D105518

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

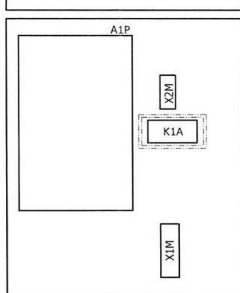
RDXYQ5T



NOTES to go through before starting the unit

- X1M : Main terminal
- 15 : Earth wiring
- 15 : Wire number 15
- Field wire
- Field cable
- **/12.2 : Connection ** continues on page 12 column 2
- ① : Several wiring possibilities
- Option
- Not mounted in switch box
- Wiring depending on model
- PCB

POSITION IN SWITCH BOX



LEGEND



Translation can be found in the installation manual.

Part n°	Description
A1P	main PCB
C1 (A1P)	capacitor
E1H	* drain pan heater
F1U	* fuse F 1 A 250 V
F1U (A1P)	fuse T 6.3 A 250 V for PCB
HAP (A1P)	running LED (service monitor-green)
K1A	* auxiliary relay
M*F	motor (fan)
Q1DI	# earth leakage circuit breaker
PS (A1P)	switching power supply
R1T	thermistor air
R2T	thermistor gas
R3T	thermistor coil
V1R (A1P)	diode module
X1M	main terminal
X2M	field wiring terminal
X*M	terminal strip
X*Y	connector
Y1E	electronic expansion valve
Z1C	ferrite core
Z1F (A1P)	noise filter

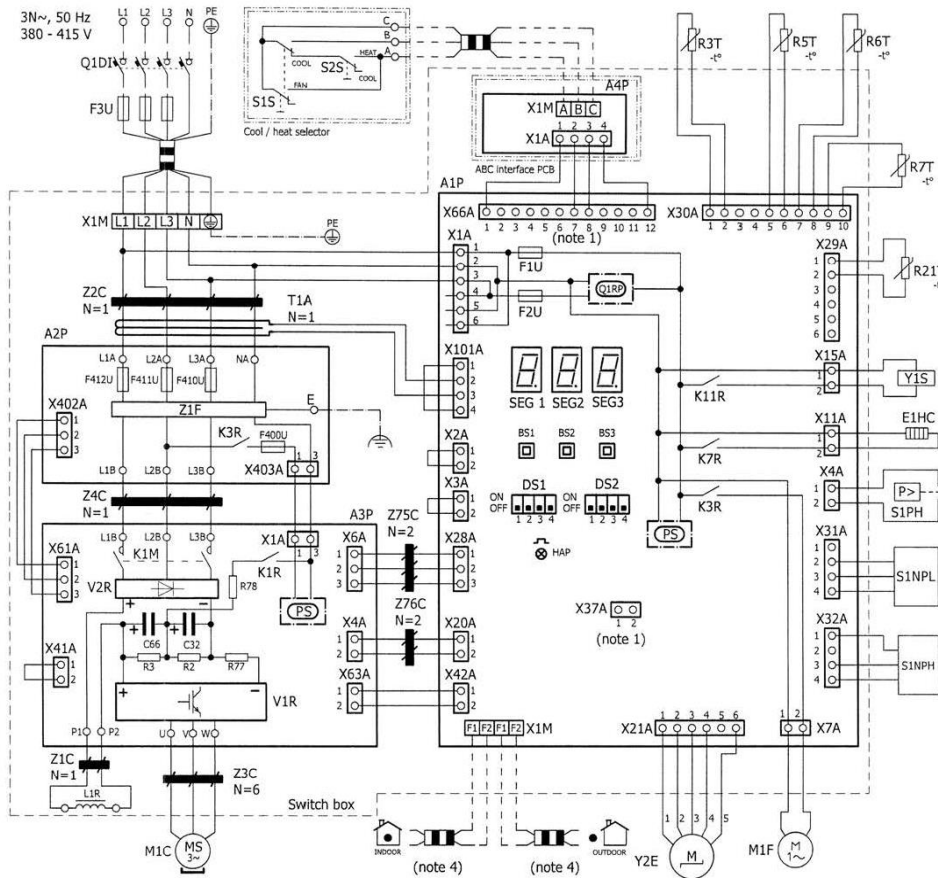
* : optional
: field supply

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9 Wiring diagrams

9 - 2 Wiring Diagrams - Three Phase

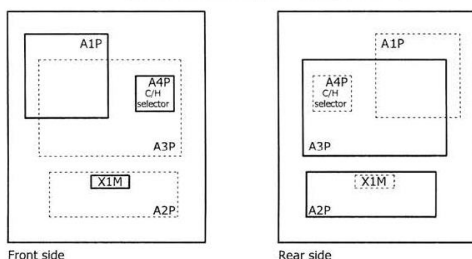
RKXYQ8T



NOTES to go through before starting the unit

1. Symbols :
 - X1M : Main terminal
 - 15 : Earth wiring
 - 15 : Wire number 15
 - Field wire
 - Field cable
 - Connection ** continues on page 12 column 2
 - Several wiring possibilities
 - Option
 - Not mounted in switch box
 - Wiring depending on model
 - PCB
1. When using the optional adapter, refer to the installation manual of the optional adapter.
2. Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1 ~ DS2 DIP switches.
3. Do not operate the unit by short-circuiting protection device (S1PH).
4. For connection to indoor-outdoor transmission F1-F2 wiring, outdoor - outdoor transmission F1-F2, refer to "service manual".

POSITION IN SWITCH BOX



LEGEND



Translation can be found in the installation manual.

Part n°	Description	Part n°	Description
A1P	main PCB	R5T	thermistors (subcool liquid, pipe)
A2P	noise filter PCB	R6T	thermistors (heat exchanger gas pipe)
A3P	inverter PCB	R7T	thermistors (suction)
A4P	cool/heat selector PCB	R* (A3P)	resistor
BS* (A1P)	push buttons (mode, set, return)	S1NPH	high pressure sensor
C* (A3P)	capacitors	S1NPL	low pressure sensor
DS* (A1P)	dipswitch	S1PH	high pressure switch (disch)
E1HC	crankcase heater	S1S	* air control switch
F*U (A1P)	fuse T 3,15 A 250 V	S2S	* cool / heat switch
F3U	field fuse	SEG1 SEG3	7-segment display
F400U (A2P)	fuse T 6.3 A 250 V	T1A	current sensor
F410U (A2P)	fuse T 40 A 500 V	V1R (A3P)	IGBT power module
F411U (A2P)	fuse T 40 A 500 V	V2R (A3P)	diode module
F412U (A2P)	fuse T 40 A 500 V	X37A	* connector (power supply for option PCB)
HAP (A1P)	running LED (service monitor-green)	X66A	* connector (remote switching cool/heat selector)
K1M (A3P)	magnetic contactor	X1M	terminal strip (power supply)
K*R (A*P)	magnetic relay	X*A	PCB connector
L1R	reactor	X*M (A*P)	terminal strip on PCB
M1C	motor (compressor)	X*Y	connector
M1F	motor (fan)	Y2E	electronic expansion valve
PS (A1P,A3P)	power supply	Y*S	solenoid valve (4-way valve)
Q1DI	# earth leakage circuit breaker	Z*C	noise filter (ferrit core)
Q1RP (A1P)	phase reversal detect circuit	Z*F	noise filter
R21T	thermistors (M1C discharge)		
R3T	thermistors (accumulator)		

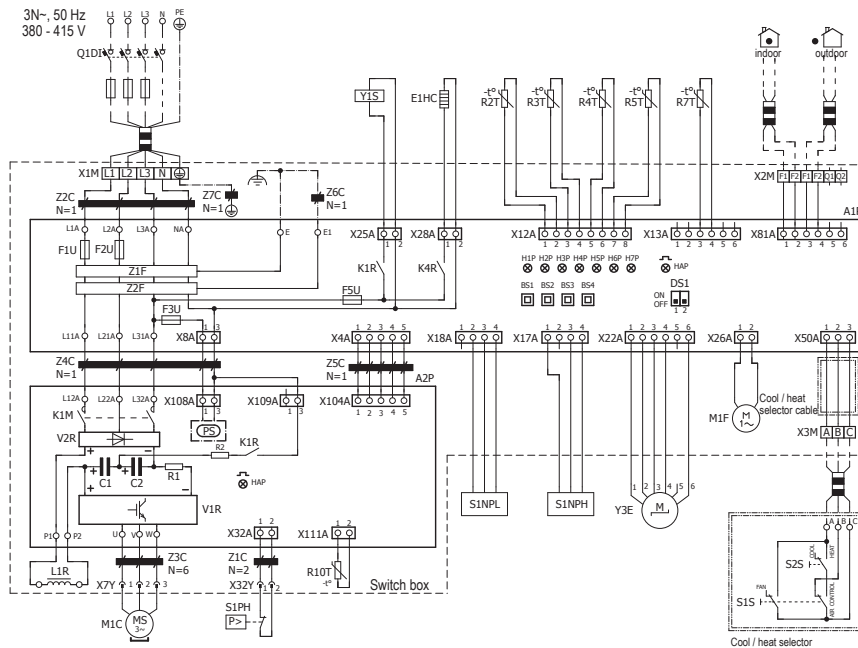
* : optional
: field supply

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9 Wiring diagrams

9 - 2 Wiring Diagrams - Three Phase

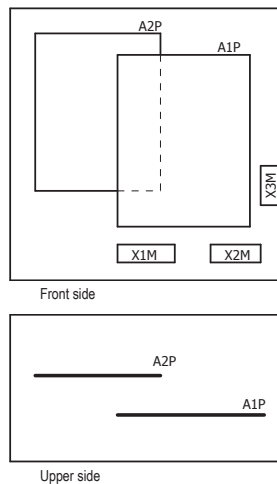
RKXYQ5T8



NOTES to go through before starting the unit

- X1M : Main terminal
- 15 : Earth wiring
- 15 : Wire number 15
- Field wire
- Field cable
- Connection ** continues on page 12 column 2
- 1 : Several wiring possibilities
- Option
- Wiring depending on model
- Not mounted in switch box
- PCB

POSITION IN SWITCH BOX



LEGEND

Part n°	Description	Part n°	Description
A1P	main PCB	R3T	thermistor (suction accumulator)
A2P	inverter PCB (INV)	R4T	thermistor (subcool HE gas)
BS* (A1P)	push button	R5T	thermistor (suction compressor)
C* (A2P)	capacitor	R7T	thermistor (liquid)
DS1 (A1P)	dipswitch	R10T	thermistor (fin)
E1HC	crankcase heater	S1NPL	pressure sensor (low)
F1U (A1P)	fuse T 31,5 A 250 V for PCB	S1NPH	pressure sensor (high)
F2U (A1P)	fuse T 31,5 A 250 V for PCB	S1PH	high pressure switch
F3U (A1P)	fuse T 6,3 A 250 V for PCB	S*S	* switch cool/heat selector
F5U (A1P)	fuse T 6,3 A 250 V for PCB	V1R (A2P)	IGBT power module
H*P (A1P)	LED (service monitor-orange)	V2R (A2P)	diode module
HAP (A*P)	running LED (service monitor-green)	X1M	terminal strip (power supply)
K1M (A2P)	magnetic contactor	X2M	terminal strip (low voltage)
K1R (A*P)	magnetic relay	X3M	terminal strip (cool/heat selector)
K4R (A1P)	magnetic relay (E1HC)	X*Y	connector
L1R	reactor	Y1S	solenoid valve (4 way valve)
M1C	motor (compressor)	Y3E	electronic expansion valve
M1F	motor (FAN)	Z*C	noise filter (ferrit core)
PS (A2P)	switching power supply	Z*F (A1P)	noise filter
Q1DI	earth leakage circuit breaker		
R* (A2P)	resistor		
R2T	thermistor (discharge)		

* : optional
: field supply

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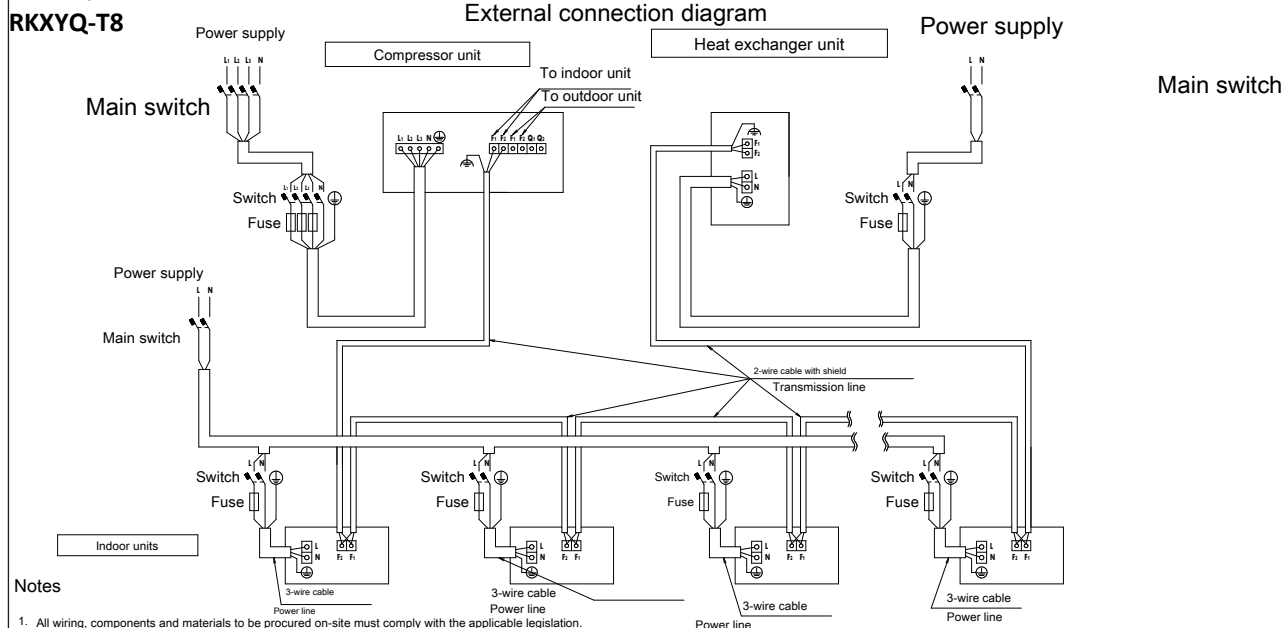
10 External connection diagrams

10 - 1 External Connection Diagrams

RDXYQ-T8

RKXYQ-T8

External connection diagram



Notes

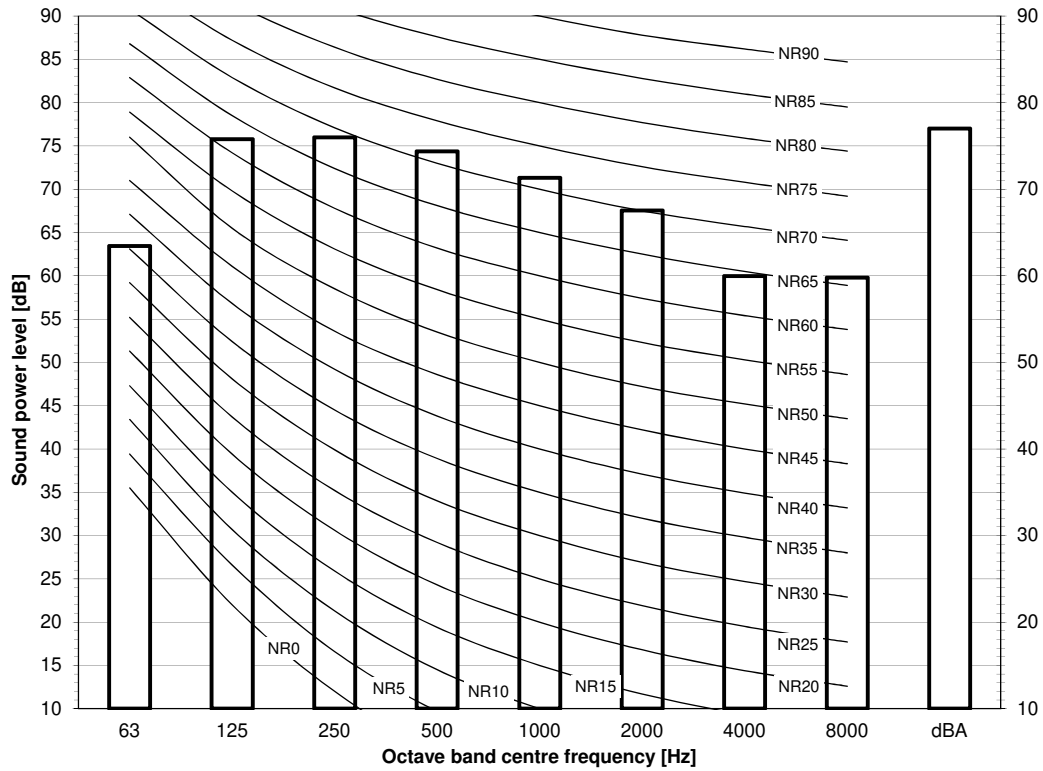
1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only.
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main to switch to (if necessary) immediately interrupt all the system's power sources.
10. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
Running the product in reversed phase may break the compressor and other parts.
11. Install an earth leakage circuit breaker.
12. To ensure proper earthing, connect the shields of the incoming and outgoing transmission wiring of each indoor unit to each other.
13. The main line is the line to which the transmission wiring of the heat exchanger unit is connected.

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11 Sound data

11 - 1 Sound Power Spectrum

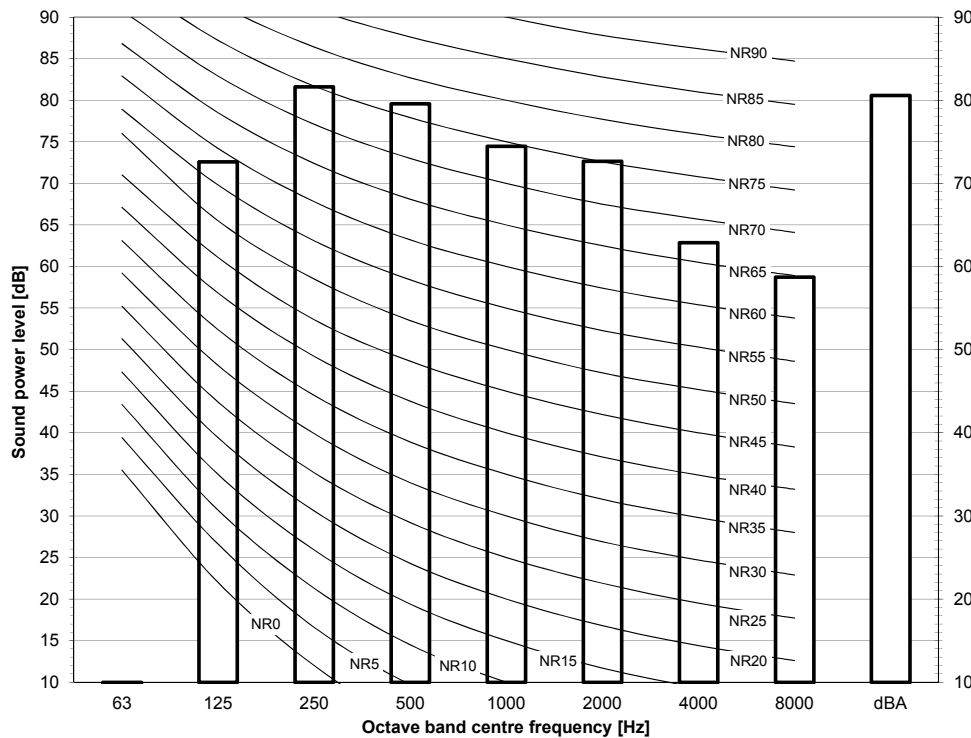
RDXYQ5T8
RDXYQ5T



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $10E-6 \mu W/m^2$.
- Measured according to ISO 3744

3D099602B

RDXYQ8T



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $10E-6 \mu W/m^2$.
- Measured according to ISO 3744

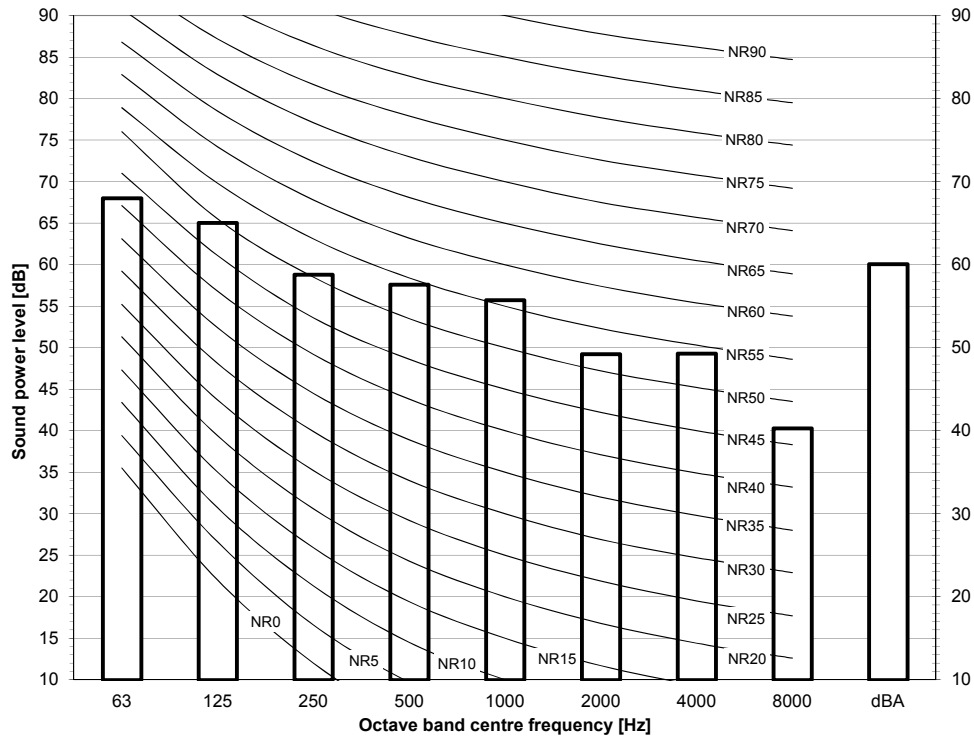
3D105985

11 Sound data

11 - 1 Sound Power Spectrum

11

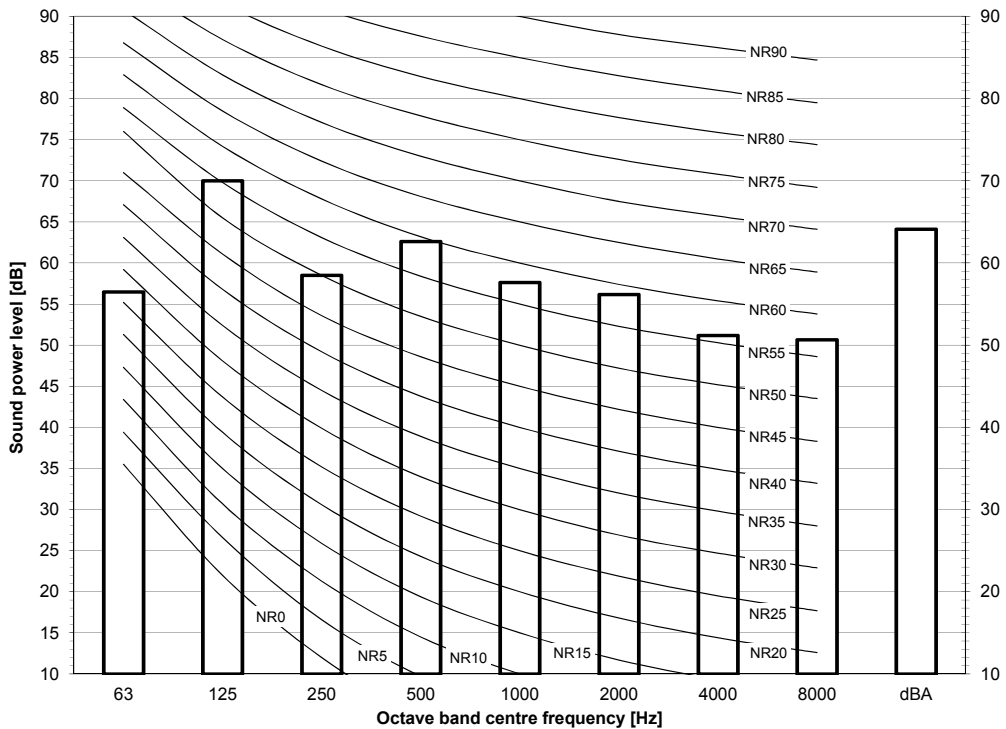
RKXYQ5T



Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6μW/m²
 - Measured according to ISO 3744

3D099625

RKXYQ8T



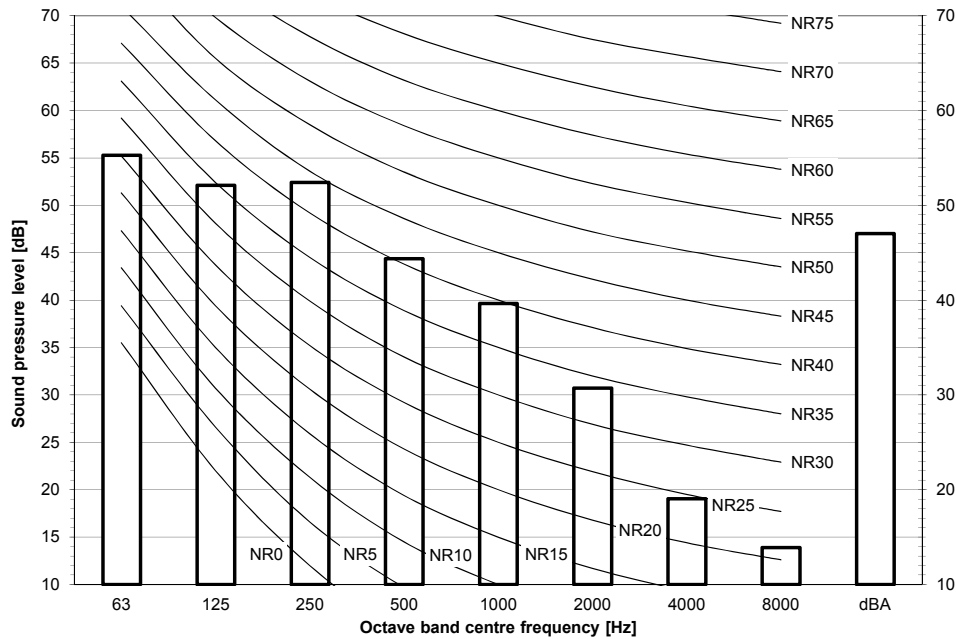
Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6μW/m²
 - Measured according to ISO 3744

3D106014

11 Sound data

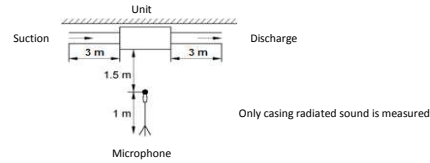
11 - 2 Sound Pressure Spectrum

RDXYQ5T



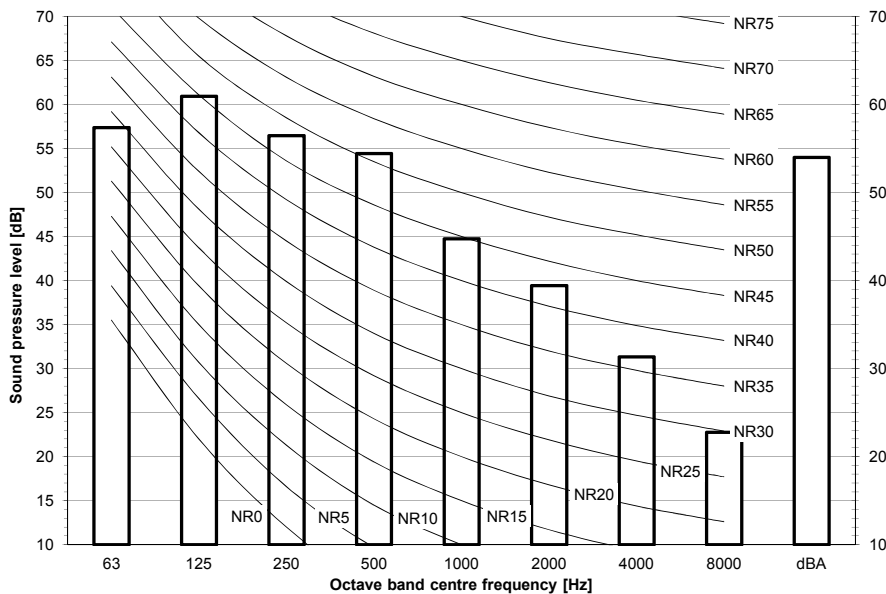
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa



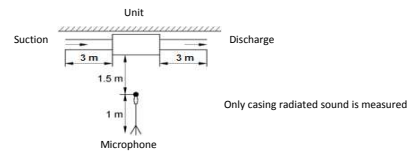
3D098852

RDXYQ8T



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa



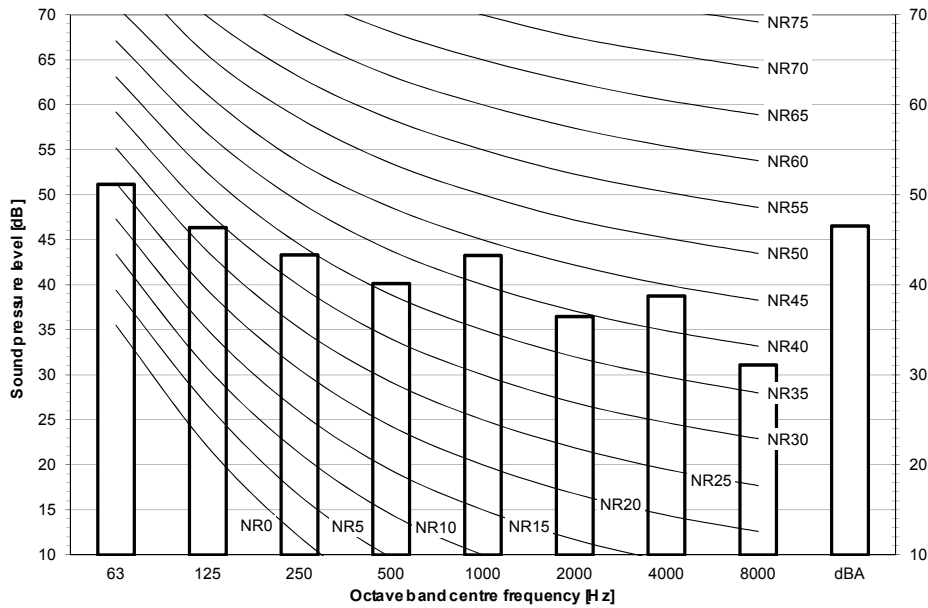
3D105965

11 Sound data

11 - 2 Sound Pressure Spectrum

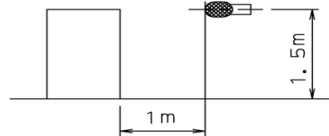
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RKXYQ5T



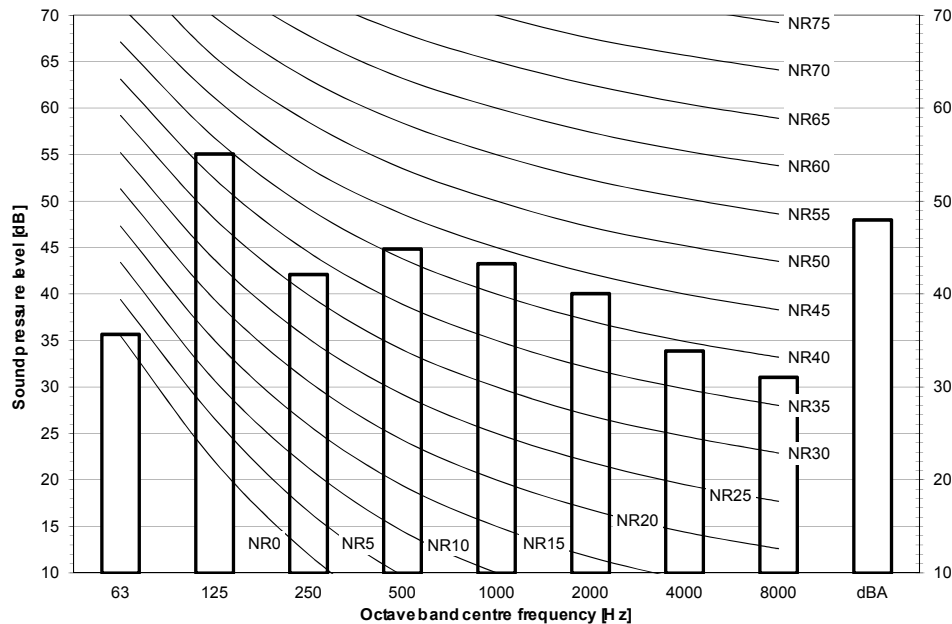
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa



3D099621

RKXYQ8T

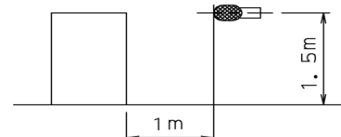


Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

Data is valid under the following conditions

- Cooling operation
- Outdoor Ta: 35°C



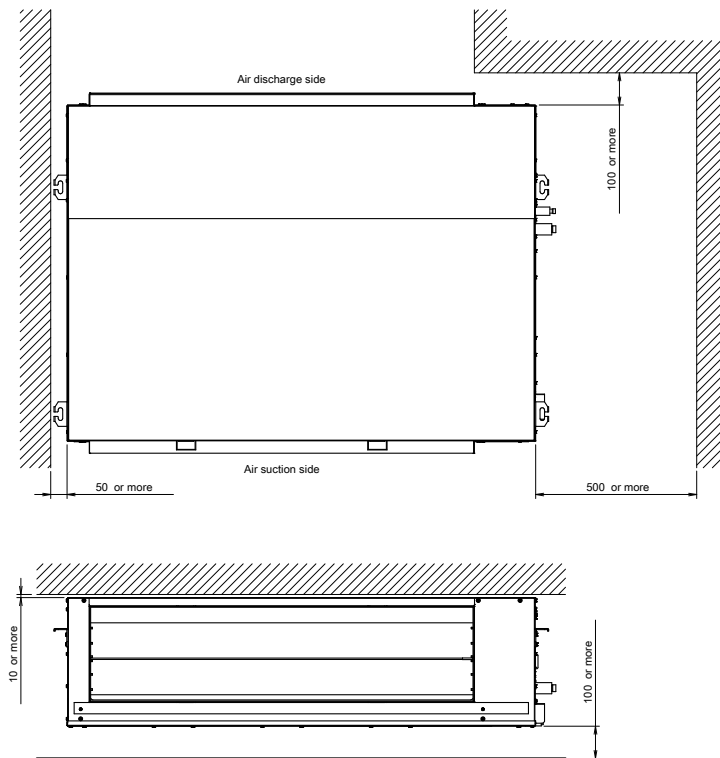
3D106018

12 Installation

12 - 1 Installation Method

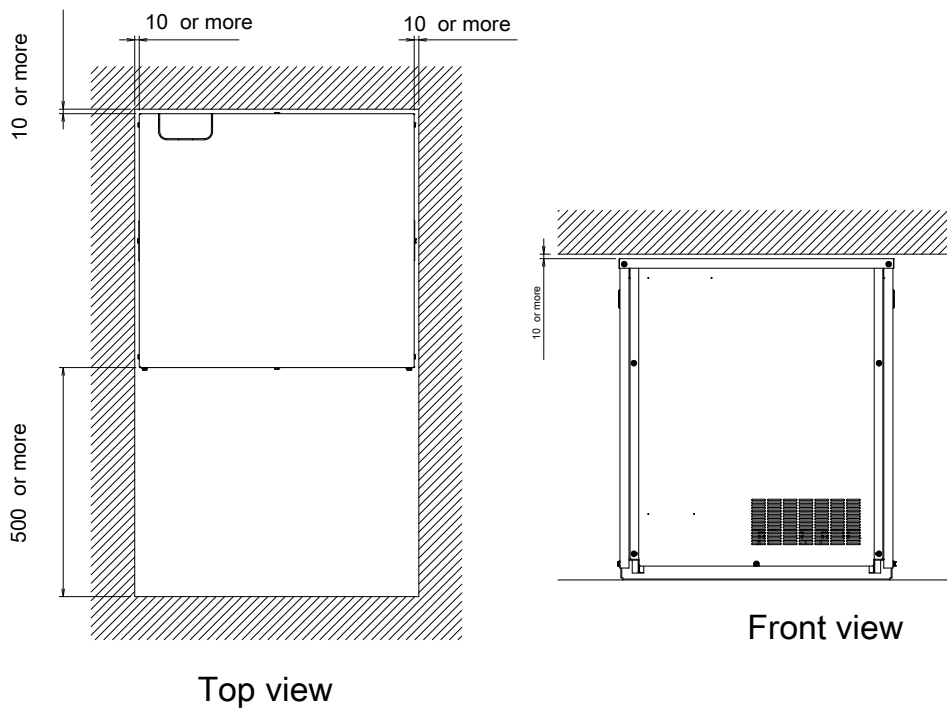
12

RDXYQ5T



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SB.RKXYQ-T8



Front view

Top view

3D098835

12 Installation

12 - 2 Refrigerant Pipe Selection

SB.RKXYQ-T

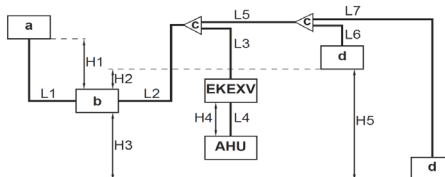
VRV4-i Heat pump Piping restrictions

Maximum piping length [m]					
Longest pipe		Actual / (Equivalent)		After first branch	
Actual a ↔ b		b ↔ d		Actual c ↔ d/AHU	
L1	30	L2+L3+L4	70/(90)	L3+L4	40
		L2+L5+L6	70/(90)	L5+L6	40
		L2+L5+L7	70/(90)	L5+L7	40

See note 1.

Maximum height difference [m]					
a ↔ b		b ↔ d		d ↔ d	
H1	±10	H2	±30	H5	±15
		H3	±30	H4	±5

Model	Total piping length [m]	
	a ↔ b	a ↔ b + b ↔ d
VRV4-i SHP	L1	L1+L2+L3+L4+L5+L6+L7
	30	115
	25	120
	20	125
	15	130
	10	135
VRV4-i SHP	5	140
	-	300



a: Heat exchanger unit
b: Compressor unit
c: Refrigerant branch kit
d: VRV DX indoor unit
EKEXV: Expansion valve kit
AHU: Air handling unit (AHU)
H1-H5: Height difference
L1-L7: Piping length

Notes

1. VRV4-i SHP:

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

2. VRV4-i SHP:

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, you MUST increase the size of the main liquid pipe (between compressor unit and first refrigerant branch kit).

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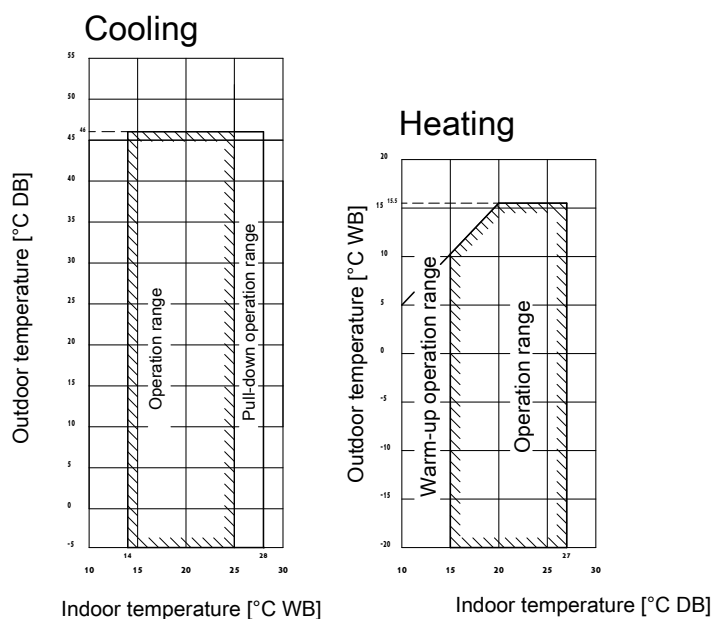
13 Operation range

13 - 1 Operation Range

SB.RKXYQ-T8

Notes

- These figures assume the following operation conditions
Equivalent piping length: 10m
Level difference: 0m
- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the heat exchanger unit in a location not exposed to wind.
- If the outdoor temperature can drop below -7°C for more than 24 hours, it is recommended to install drain pan heater kit _____ (EKJDPH1RDX)_____.



3D098833A

14 Appropriate Indoors

14 - 1 Appropriate Indoors

RKXYQ-T
RDXYQ-T

14

Recommended indoor units for ·RKXYQ*T* + RDXYQ*T*· outdoor units

· HP	5	8
	4xFXSQ32	4xFXMQ50

For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·RKXYQ*T* + RDXYQ*T*· outdoor units

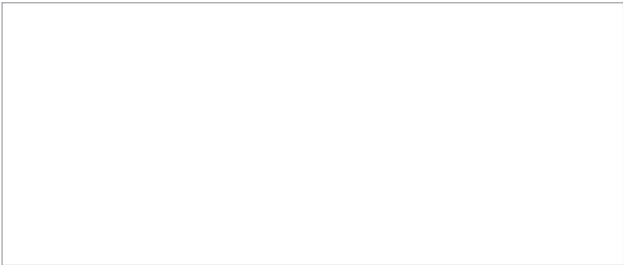
Covered by ·ENER LOT21·

FXFQ20-25-32-40-50-63-80-100-125
 FXZQ15-20-25-32-40-50
 FXCQ20-25-32-40-50-63-80-125
 FXKQ25-32-40-63
 FXDQ15-20-25-32-40-50-63
 FXSQ15-20-25-32-40-50-63-80-100-125-140
 FXMQ50-63-80-100-125-200-250
 FXAQ15-20-25-32-40-50-63
 FXHQ32-63-100
 FXUQ71-100
 FXNQ20-25-32-40-50-63
 FXLQ20-25-32-40-50-63

Outside the scope of ·ENER LOT21·

EKEXV50-63-80-100-125-140-200 + EKEQM
 VKM50-80-100
 CYVS100-150-200-250
 CYVM100-150-200-250
 CYVL100-150-200-250
 EKVDX32-50-80-100 + VAMJ8

3D113978A



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11/2022



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